

WHAT IS CLAIMED IS:

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1. A recording method for recording data in a recording area of an information recording medium, comprising:

a first step of determining whether to perform a defect detection process on at least a portion of the recording area
10 in which the data are recorded based on a predetermined determination criterion pertaining to recording attribute information of the data.

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2. The recording method as claimed in claim 1, wherein the recording area includes an area on which the defect detection process is already performed at least once.

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3. The recording method as claimed in claim 1, wherein:
25 the recording attribute information includes information

on a data size of the data; and

the determination criterion corresponds to a criterion of
determining to perform the defect detection process when the
data size of the data is less than or equal to a preset first
5 threshold value.

10 4. The recording method as claimed in claim 1, wherein:
the recording attribute information includes division
information pertaining to dividing the data into a plurality of
data sections; and

the determination criterion corresponds to a criterion of
15 determining to perform the defect detection process when a data
section of which a data size is less than or equal to a preset
second threshold value exists among the data sections, the
defect detection process being performed on at least a portion
of the recording area in which said data section is recorded.

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5. The recording method as claimed in claim 1, wherein:
25 the recording attribute information includes information

pertaining to the recording area in which the data are recorded; and

the determination criterion corresponds to a criterion of determining to perform the defect detection process when the recording area includes an area that is in a vicinity of a known defect area.

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6. The recording method as claimed in claim 1, further comprising:

a second step of performing the defect detection process when a determination is made in the first step to perform the defect detection process to determine whether a defect area is included in the processing area; and

a third step of recording defect area data in a predetermined replacement area when a defect area is detected in the second step.

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7. The recording method as claimed in claim 1, wherein the defect detection process corresponds to a verification

process.

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8. The recording method as claimed in claim 1, wherein the information recording medium conforms to a Mt. Rainier standard.

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9. A program that is implemented in an information recording apparatus that is adapted to record information on an information recording medium, said program being run on a control computer of the information recording apparatus to realize:

a first procedure of recording data in a recording area of the information recording medium in response to a request from an external source; and

a second procedure of determining after the recording of the data whether to perform a defect detection process on at least a portion of the recording area in which the data are recorded based on a predetermined determination criterion pertaining to recording attribute information of the data.

5 10. The program as claimed in claim 9, further
comprising:

 a third procedure of performing the defect detection
process when a determination is made in the second procedure to
perform the defect detection process, and if a defect area is
10 detected, recording defect area data of the defect area in a
predetermined replacement area.

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 11. A computer readable storage medium storing a program
that is implemented in an information recording apparatus that
is adapted to record information on an information recording
medium, said program being run on a control computer of the
20 information recording apparatus to realize:

 a first procedure of recording data in a recording area of
the information recording medium in response to a request from
an external source; and

 a second procedure of determining after the recording of
25 the data whether to perform a defect detection process on at

least a portion of the recording area in which the data are recorded based on a predetermined determination criterion pertaining to recording attribute information of the data.

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12. An information recording apparatus that is adapted to record information on an information recording medium, said
10 apparatus comprising:

recording means for recording data on the information recording medium in response to a recording request from an external apparatus; and

determination means for determining after the recording of
15 the data whether to perform a defect detection process on at least a portion of the recording area in which the data are recorded based on recording attribute information of the data.

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13. The information recording apparatus as claimed in claim 12, further comprising:

replacement means for performing the defect detection
25 process when a determination is made by the determination means

to perform the defect detection process, and if a defect area is detected, recording defect area data of the defect area in a predetermined replacement area.

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14. The information recording apparatus as claimed in claim 12, wherein:

10 the recording attribute information includes information on a data size of the data; and

 the determination means determines to perform the defect detection process when the data size of the data is less than or equal to a preset first threshold value.

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15. The information recording apparatus as claimed in claim 14, further comprising:

 a memory for temporarily storing the data, wherein

 the first threshold value is set to a value corresponding to an amount of data that can be stored in the memory.

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16. The information recording apparatus as claimed in claim 12, wherein:

5 the recording attribute information includes division information pertaining to dividing the data into a plurality of data sections; and

the determination means determines to perform the defect detection process when a data section of which a data size is
10 less than or equal to a preset second threshold value exists among the data sections, the defect detection process being performed on at least a portion of the recording area in which said data section is recorded.

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17. The information recording apparatus as claimed in claim 16, further comprising:

20 a memory for temporarily storing the data, wherein the second threshold value is set to a value corresponding to an amount of data that can be stored in the memory.

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18. The information recording apparatus as claimed in claim 12, wherein:

the recording attribute information includes information
5 pertaining to the recording area in which the data are recorded; and

the determination means determines to perform the defect detection process when the recording area in which the data are recorded includes an area that is in a vicinity of a known
10 defect area.

15 19. The information recording apparatus as claimed in claim 12, further comprising:

a memory for temporarily storing the data, wherein

the determination means obtains information on a partial recording area in which data remaining in the memory are
20 recorded based on the recording attribute information, and determines to perform the defect detection process on said partial recording area.

20. The information recording apparatus as claimed in claim 12, wherein the defect detection process corresponds to a verification process.

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21. The information recording apparatus as claimed in claim 12, wherein the information recording medium conforms to a Mt. Rainier standard.

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22. A recording method for recording data in a recording area of an information recording medium, comprising:

performing a first verification process on at least a portion of the recording area;

20 recording data in said portion of the recording area; and

determining whether to perform a second verification process on said portion of the recording area based on whether a predetermined determination criterion has been met.

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23. A recording method for recording data in a recording area of an information recording medium, comprising:

5 recording the data in at least a portion of the recording area; and

 determining whether to perform a verification process on the portion of the recording area based on whether the size of the data is less than or equal to a threshold value.

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24. A recording method for recording data in a recording area of an information recording medium, comprising:

15 recording a portion of the data in a designated area of the recording area; and

 determining whether to perform a verification process on the designated area based on whether the designated area is
20 within a predetermined vicinity of a defect area of the recording medium.

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25. A recording method for recording data in a recording area of an information recording medium, comprising:

recording a portion of the data in a designated area of the recording area;

5 determining whether to perform a verification process on the designated area based on whether the corresponding recording unit size of the portion of data is less than or equal to a threshold value.

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26. A recording method for recording data in a recording area of an information recording medium, comprising:

15 successively extracting a plurality of portions of the data from a memory, wherein the size of the portions of data exceeds a memory capacity of the memory, and wherein a last portion of data remains in the memory after such extraction;

recording the portions of data in the recording area;

20 obtaining a verifiable area in which the last portion of data remaining in the memory is recorded; and

performing a verification process on the verifiable area.